## REPORT.

OF THE

## DEPARTMENT OF SANITATION

OF THE

# ISTHMIAN CANAL COMMISSION

FOR THE

YEAR 1910

W. C. GORGAS

Colonel, Medical Corps, U. S. Army Chief Sanitary Officer, Ancon, Canal Zone

WASHINGTON ·
GOVERNMENT PRINTING OFFICE
1911

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#### LETTER OF TRANSMITTAL.

ISTHMIAN CANAL COMMISSION, DEPARTMENT OF SANITATION, Ancon, Canal Zone, January 25, 1911.

CHAIRMAN AND CHIEF ENGINEER, ISTHMIAN CANAL COMMISSION, Culebra, Canal Zone.

SIR: I have the honor to submit the following report of the department of sanitation for the calendar year 1910.

The improved health conditions shown in the report for 1909 continue, as is shown by the following table:

	Number of employees.	Deaths.	Rate.
1904 1905		82 427	13. 26
1906	16, 512 26, 547	1, 105	25. 86 41. 73
1907	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1, 131 571	28. 74 13. 01
1909 1910	47, 167 50, 802	502 558	10. 64 10. 98

The slight increase in the death rate over that of 1909 is due to the increased number of deaths from external violence, the death rate

from disease being less than that of 1909.

The death rate among our white employees from the United States from disease was 2.63 per thousand. If we include American women and children, it will raise the death rate of Americans from disease to 3.64 per thousand. This shows an improvement over the year 1909, when the death rate for the above was 3.88 and 4.32 per thousand, respectively.

Taking special diseases, the deaths from typhoid fever among

our employees have been:

1905	. 12
1906	
1907	
1908	. 19
1909	. 13
1910	

Considering dysentery, we have had among our employees from this disease the following deaths:

1905	14
1906	69
1907	48
1908	
1909	8
1910	21

Among our 13,021 white employees we had only 1 death from this disease.

Considering pneumonia, we have had among our employees from this disease the following deaths:

1905	95
1906	
1907	
1908	. 93
1909	
1910	

Considering deaths from malaria among employees, we see the following figures:

1905	86
1906	
1907	154
1908	73
1909	52
1910	

This is the smallest number of deaths we have had from malaria, and there is a marked improvement in the admission rate to our hospitals, as shown by the following table:

•	,	·	9	Per thousand.
1904				125
1905				514
1906				821
1907				
1908				282
1909				215
1910				187

Deaths from the other principal diseases were as follows: Abscess of the liver, 9; nephritis, acute and chronic, 39; and from all forms of tuberculosis, 74; leaving 102 deaths among employees from all other diseases and 177 deaths from external violence.

Considering the death rate of the total population, including the cities of Panama and Colon and the Canal Zone, we find the rates

for the different years to be as follows:

	Rate.
1905	49.94
1906	48.37
1907	33. 63
1908	
1909	18. 19
1910	21. 18

One death from yellow fever, in the person of a young Englishman, occurred at Ancon Hospital on January 24, 1910. The deceased arrived in Panama on the 6th of the month and was taken ill on the 8th. Information was received that he left the ship while in the harbor of Cartagena and visited the native town, and it was there that he undoubtedly got his infection.
With this exception no cases of yellow fever, plague, or smallpox

occurred on the İsthmus during the year.

Very respectfully,

W. C. Gorgas, Chief Sanitary Officer.

78431-11-2



#### ANNUAL REPORT

OF THE

# DEPARTMENT OF HEALTH, ISTHMIAN CANAL COMMISSION, FOR THE YEAR 1910.

#### VITAL STATISTICS.

DEATHS OF EMPLOYEES OF THE ISTHMIAN CANAL COMMISSION AND PANAMA RAILROAD CO.

Color.	Average number of deaths from— Annual death 1,000 from			rage from—				
Color.	of employees.	Dis- ease.	Vio- lence.	All causes.	Dis- ease.	Vio- lence.	All causes.	
White	13,021 37,781	64 317	55 122	119 439	4. 92 8. 39	4. 22 3. 23	9. 14 11. 62	
Total	50,802	381	177	558	7.50	3.48	10.98	

DEATHS IN THE CITIES OF PANAMA AND COLON, AND THE CANAL ZONE.

Places.	Population.	Deaths.	Annual average per 1,000.
Panama Colon Canal Zone	45, 591 19, 535 86, 465	1, 446 514 1, 251	31. 72 26. 31 14. 47
Total	151, 591	3, 211	21. 18

NOTE.—The figures relating to the number of employees are compiled from the pay rolls of the different months of the year. The population and deaths as given for the cities of Panama, Colon, and the Canal Zone include employees and civil population.

10

## DEATHS BY AGE, COLOR, AND SEX.

A	Wh	White.		red.	Yell	low.	То	tal.
Age.	M.	F.	M.	F.	М.	F.	M.	F.
Under 1 year 1 to 4 years 5 to 10 years 11 to 20 years 21 to 30 years 31 to 40 years 41 to 50 years 51 to 60 years 61 to 70 years 71 to 80 years 81 to 90 years 91 to 100 years 101 to 110 years Unknown	93 16 6 12 75 72 51 30 5 3 2	59 21 4 	459 109 26 108 403 228 173 81 30 18 6 1	352 118 20 61 168 95 56 36 24 8 3	2 2 1 15 12 4 6 4 2	2 2	554 127 32 121 493 312 228 117 39 23 8 1 1 48	413 141 24 61 183 112 74 44 28 10 5
Total	367	154	1,687	949	50	4	2,104	1,107

#### DEATHS BY NATIONALITY.

Nations.	Employees.	Nonemploy- ees.	Total.
Africa	1	1	2
Antigua	8	11	19
Argentina		1	1
Australia	1		1
Austria		1	1
Bahama Islands	3	1	4
Barbados	163	188	351
Brazil	1		1
Bulgaria.	1		1
Canada		$\frac{2}{50}$	2
China	16	$\begin{array}{c c} 52 \\ 136 \end{array}$	52
Costa Rica.		9	152 11
Cuba.		$\begin{bmatrix} 9 \\ 7 \end{bmatrix}$	9
Curacao	2	2	$\frac{3}{2}$
Demerara		$\begin{bmatrix} 2 \\ 5 \end{bmatrix}$	7
Denmark		3	3
Dominican Republic		1	1
Dutch West Indies		ī	ī
Ecuador	1	$-\frac{1}{6}$	7
England	1	9	10
Finland		1	1
Fortune Island	10		10
France		12	12
Germany		4	4
Greece		1	10
Grenada	15	21	36

### DEATHS BY NATIONALITY—Continued.

Nations.	Employees.	Nonemploy- ees.	Total.
Guadeloupe	17	11	28
Guiana, British	1	3	4
Haiti	2	3	5
India	1	3	4
Italy	11	10	21
Jamaica	114	520	634
Martinique	26	66	92
Mexico	1	6	7
Montserrat	8	8	16
Nevia	1		1
Nicaragua	1	3	4
Norway	1	1	2
Panama	14	1,329	1, 343
Peru	2	3	5
Porto Rico		1	1
Portugal	1		1
Russia		1	1
San Salvador		2	2
St. Domingo	1	1	2
St. Kitts	6	4	10
St. Lucia	11	68	79
St. Martins	1		1
St. Thomas	1	2	3
St. Vincent		4	8
Spain	51	44	95
Sweden		. 2	2
Syria		2	2
Trinidad	8	18	26
Turks Island	l i	1	2
United States.		42	77
Venezuela		2	3
West Indies, British		ī	1
Unknown	. 1	17	18
CHRILOW II		1.	
Total	. 558	2,653	3, 211
20001-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	300		

# Causes of Deaths of Employees of the Isthmian Canal Commission and Panama Railroad.

Causes of death.	White.	Colored.	Total.
Disease.			
Alcoholism, acute and chronic Anæmia Aneurism Apoplexy	1	1	2 1 2 5

Causes of Deaths of Employees of the Isthmian Canal Commission and Panama Railroad—Continued.

Causes of death.	White.	Colored.	Total.
Disease—Continued.	,		
Appendicitis		1	1
Softening of	1	1	1 1
Cancer of intestines, peritoneum, and rectum		1	1
Cancer and other malignant tumors of buccal cavity	1		1
Cerebrospinal fever Cholangitis superative Colitis, acute and chronic	1	1	1 1
Congestion and hemorrhage of the		1	1
brain Diabetes		1	1
Dementia præcox Dysentery Amæbic	1	$\begin{vmatrix} 1\\12\\2 \end{vmatrix}$	$\begin{array}{c} 1\\13\\2\end{array}$
Clinical Emphysema, pulmonary		$\begin{bmatrix} 6 \\ 2 \end{bmatrix}$	$\frac{6}{2}$
Empyema. Encephalomalacia, acute		1 1	1 1
Diarrhea and enteritis.  Epilepsy Fever:		1	1
Hemoglobinuric	2	1 19	$\begin{array}{c} 6 \\ 21 \end{array}$
Malaria, estivo-autumnal Typhoid	8	$\begin{array}{c c} 15 \\ 12 \end{array}$	23 13-
Heart: Acute rupture of	7	1 10	1 11
Organic disease of		1 10	1 10
Intestinal obstructionLiver:		3	3
Abscess of	1	5	9
Abscess of. Gangrene of.	1	2	$\frac{1}{2}$
Meningitis: Pneumococcus		1	1
Tuberculous. Simple. Myomalacia	1	1	3 2 3

Causes of Deaths of Employees of the Isthmian Canal Commission and Panama Railroad—Continued.

Causes of death.	White.	Colored.	Total.
Disease—Continued.  Nephritis:     Acute.     Chronic. Other tumors (lymphoma). Pellagra. Peritonitis, simple. Pneumonia. Pyæmia Pyæmia and septicæmia, pneumococcic. Senility. Septicæmia. Septicæmia, purulent infection. Splenic anemia. Syphilis. Tetanus. Tuberculosis:     General.     Pulmonary.     Miliary.     Abdominal.     Disseminated. Ulcer, duodenal. Undiagnosed.	1 10 2 2 2 1 2	5 30 1 1 5 63 4 2 1 1 3 3 2 9 37 4 4 16 2 3	5 34 1 2 5 73 6 2 1 3 5 1 2 2 2 10 40 4 4 4 16 2 3
Violence.  Accidental traumatisms, various. Burns and scalds. Drowning, accidental. Dynamite explosions. Electric shock. Homicides. Railroad accidents. Suicides. Poisoning by food. Other acute poisonings. Other external violence.	3 1 3 3 29 3	30 1 17 6 6 59	41 1 20 1 9 9 88 3 1 2 2
Total	119	439	558

## Deaths of White Employees from the United States during 1910.

#### JANUARY.

Name.	Division.	Time on Isthmus.	Age.	Cause of death.						
Brown, John E Bork, Fred A Thorne, Charles L	do	7 months 33 months. 4 years	26 29 29	Railroad traumatism. Cerebral hemorrhage. Suicide (firearms).						
	FEBRUARY.									
Obdrett, Ernest Turner, Robert	Engineering	2 years	30 38	Accidental traumatism. Accidental trauma (dynamite).						
	Δ	MARCH.								
Cole, W. R	Engineeringdodo Examination of accounts.	32 months. 4 years 32 months. 6 months	51 25	Suicide (firearms). Dysentery, amæbic. Electric shock. Tuberculosis, pulmonary.						
		APRIL.								
Cottrell, R Fake, L. E. Geary, L. D. Hart, F. W.	Engineering		30 31 53 38	Tuberculosis, pulmonary. Accidental traumatism. Septicæmia. Liver, abscess of, amæbic.						
		MAY.	,	·						
Barry, John M Clark, James F Healy, Anna Howard, Robert E	tration.	2½ years 30 months. 1 year 16 months.	41 24 35 28	Organic disease of heart.  Railroad traumatism.  Organic disease of heart.  Railroad traumatism.						
<del></del>		JULY.								
Ames, Lamont	Atlantic division.	1 year	60	Bright's disease.						
AUGUST.										
Hobart, Joseph Jackson, John Ridley, Arthur G Tinsley, Elias C Tafel, Harry	do	7 weeks 13 months. 4 years, 2 months. 4 years 4 months	13 38 46 24	Accidental trauma (dynamite). Railroad traumatism. Fall from cement wall. Railroad traumatism. Poisoning by acid.						

## DEATHS OF WHITE EMPLOYEES FROM THE UNITED STATES DURING 1910—Continued.

#### SEPTEMBER.

Name.	Division.	Time on Isthmus.	Age.	Cause of death.
Coit, John J	Transporta- tion depart- ment.		36	Railroad traumatism.
Haven, Fred B	Mechanical de-	5 years	33	Syphilis of cerebellum.
Siegle, William	partment. Atlantic division.	7 months	27	Traumatism by machines
	0	CTOBER.		
Halstead, W. S	Chairman's of-	4 years	28	Amœbic abscess of liver.
Lynch, James	fice. Pacific divi-	6 months	38	Acute alcoholism.
Schaberle, John A	sion. Chairman's of- fice.	2 years	33	Homicide by firearms.
	NO	VEMBER.		
Tate, Dexter	Quarter mas- ter's depart- ment.	5 years	43	Suicide by firearms.
	DE	CEMBER.	,	
Brady, Walter H. H.	Sanitary de- partment.	5 years, 7	32	Traumatism by fall.
Crawford, John	Mechanical di- vision.	5 years	51	Chronic nephritis.
Dabbs, John S	Atlantic divi-	16 months.	21	Staphylococcus septicæ
Evans, J. D Murphy, A. R	sion. Panama R. R. Mechanical di- vision.	18 months. $4\frac{1}{2}$ years	23 56	mia. Splenic anæmia. Sarcoma of right parotic gland.

## DEATHS OF WHITE WOMEN AND CHILDREN FROM THE UNITED STATES DURING 1910.

#### JANUARY.

Name.	Time on Isthmus.	Age.	Cause of death.
Collins, Mrs. H. S. Fox, Mrs. B. J. Tucker, Richard B. Walker, John	2 months	23 years	Septicæmia, puerperal. Do. Entero-colitis. Meningitis, tuberculosis.

## DEATHS OF WHITE WOMEN AND CHILDREN FROM THE UNITED STATES DURING 1910—Continued.

#### FEBRUARY.

Name.	Time on Isthmus.	Age.	Cause of death.
Metcalf, Betty Wood (infant)	22 months. 3 days	22 months. 3 days	Paralysis, cerebral. Hemorrhage, cerebral.
	M.	ARCH.	
Clayborn (infant) Stewart, Agnes Georgia.	1 day 17 months.	1 day 47 years	Asthenia. Convulsions of unknown origin
	1	MAY.	
Graham, Mrs. S. E Patterson, Mrs. J. A	18 months. 9 months	74 years 45 years	Nephritis, chronic. Carcinoma of pelvis.
•	J	UNE.	
Lloyd, Mrs. H. M Russell (infant)	1 year 3 days	22 years 3 days	Septicæmia. Malnutrition.
	J	ULY.	
Arthur, Guy Everard Monley, Solomon Reidman, Karl Thompson (infant)	18 months	19 months. 3 months. 3 years 1 day	Dysentery. Diphtheria and nephritis.
	A	UGUST.	1
Albright, Marion Ruth. Murwin, Mrs. W. H	16 months.	19 months. 26 years	
	SEP	TEMBER.	
Scribner, L. May	3 years	38 years	General peritonitis.
	00	TOBER.	
Harbinson, J	. 10 months.	34 years	Acute infectious jaundice.
	NO	VEMBER.	
Butz (infant)	l hour 4 years		
	DE	CEMBER.	
Smith, Mrs. R Woodburn, Mrs. Effie	3 years 6 months.	32 years 42 years	Burns. Acute nephritis.

#### DEATH RATE AMONG AMERICANS ON THE ISTHMUS.

	Number of deaths.	Annual average per 1,000.
Average number of white employees from the United States, 6,079: Disease.	16	2.63
Violence	35	3.13
All causes		5.70
States, 4,097: Disease Violence	21 3	5.13 .73
All causes	24	5.86
Average number of white employees and their families from the United States, 10,176:  Disease	37 22	3.64 2.16
All causes	59	5.80

Diseases.	Ancon Hos- pital.	Colon Hos- pital.	Pan- ama.	Colon.	Zone.	Total.
I. General diseases.						
Typhoid fever	10 1	8	2 131	12	5 56	25 200
Malaria fever: Estivo-autumnal	46	10	1	2	21 1	80 1
Trouge of the contract of the	10		5 1 3		1 1 1	$\begin{array}{c} 6\\12\\4\end{array}$
Measles	1 1		8 1			$\frac{9}{2}$
Influenza			1 1		2	$\begin{array}{c} 1 \\ 1 \\ 2 \end{array}$
Dysentery	3 8	13	33	2 1	17 1	68 10 1
BacillaryClinicalYellow fever	26 1	1				26 $1$ $3$
Leprosy Erysipelas			2		3	3 2
Purulent infection and septi- cæmia	1 5	4	i			1 10
Septicæmia	5 3	4	6	2	3	20
TetanusPellagra	1	3 5	12	2		18 5

Di	seases.	Ancon Hos- pital.	Colon Hos- pital.	Pan- ama.	Colon.	Zone.	Total.
I. General dise	ases—Continued.						
Acute miliary	of the lungs tuberculosis	7	3	179 1 2	27 1 2	42	329 13 9
Abdominal to	berculosis	4	1	3	2	2	12 11
Of bones a Of the lar	and joints ynx			9			$\frac{1}{2}$
()fother (	ranne			1 1			71 51 6
Syphilis C. Tertia	tuberculosis	i	ii	5	1		6 2 5
Gonorrneal of	itary ohthalmiaother malignant			1		4	5 1
Of the bu Of the sto	ccal cavity mach and liver ritoneum, intes-			, 2		2	3 6
tines, ro Of the fem	etumale genital organs.		1	7	2		1 8 2
not spec	eastans and of organs cified	1	1	10		1	13
female gen	s (tumors of the ital organs exarrheumatism			1			2
Chronic rheur Scurvy	natism and gout			1			5 1 1
Anemia:	ease		1	1			1
Chlorosis. Primary, Alcoholism:	pernicious	2	·····i	1			3
Acute or Acute	chronic	1	1	7 2	1 1		10 4 1
II. Diseases o	f the nervous sys- f the organs of	•					
Simple menin	gitis	7		20			2 27
Pneumococcu Lateral sclero	fevers meningitis	2	3 2	1	2	1	5 5 1
Otherdiseases Cerebral hemo Softening of t	of the spinal cord. orrhage, apoplexy. he brain	$\frac{1}{2}$	3 4	20	8	7	3 40 5
cause	thout specified	1		6			7
tion Epilepsy		6 1 1		$\frac{2}{1}$	2	2 1	6 7 3 17
Other forms of tion Epilepsy Convulsions (Convulsions of Convulsions of Conv		6 1 1		2	2 7		

Diseaseș.	Ancon Hos- pital.	Colon Hos- pital.	Pan- ama.	Colon.	Zone.	Total.
II. Diseases of the nervous system and of the organs of special sense—Continued.						
Neuralgia						$\begin{array}{c}1\\1\\2\end{array}$
Tumor of the brain Other diseases of the nervous system						1
III. Diseases of the circulatory system.						
Pericarditis					1	3 21
Acute endocarditisOrganic disease of the heart Angina pectoris	13		43	16		92 7
Aneurism. Arterio-sclerosis Other diseases of the arteries	2	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	$\frac{2}{7}$		1	6
Other diseases of the arteries			$\frac{1}{2}$		1 -	$\frac{2}{6}$
Embolism, thrombosis			1			1 2
Other diseases of the veins Pupura hemorrhagica	1	1			$\frac{1}{2}$	3
Other hemorrhages: other diseases of the circulatory system.			3		2	6
IV. Diseases of the respiratory system.						
Myiasis of nasal fossæ and si-						1
nuses Other diseases of nasal fossæ					1	1
Other diseases of the larynx  Acute bronchitis			48		5	68
Chronic bronchitis	7	3	8 22	15 2 9 14	29	10 70
Broncho-pneumonia. Pneumonia (unqualified). Lobar pneumonia Pleurisy.	1 49	33	49	14 2	31	95 103
Pleurisy			7	3	1	11 4
Empyema. Pulmonary congestion, pulmonary apoplexy. Gangrene of the lungs.	1	2	10	1		20
Gangrene of the lungs	3		18			
AsthmaPulmonary emphysema			1		1	3 3 2
Abscess of lungs		2				2
tory system (tuberculosis ex- cepted)		1	1	1	1	4
V. Diseases of the digestive system.						
Diseases of the teeth and gums. Stomatitis.					1	1 1
Other diseases of the mouth					1	2
and annexa. Acute gastritis.			4	3	3	10
Acute indigestion				$\frac{1}{2}$	1	2 2
Other diseases of the stomach (cancer excepted)			. 4		1	4

Diseases.	Ancon Hos- pital.	Colon Hos- pital.	Pan- ama.	Colon.	Zone.	Total.
V. Diseases of the digestive system—Continued.						
Diarrhea and enteritis (under 2 years)	5	7	243	73	58	'386
Diarrhea and enteritis (2 years and over)	3		37 1	8	4 6	52 9
Ascariasis					4	$\frac{9}{4}$
Other intestinal parasitesAppendicitis and typhlitis Hernias, intestinal obstructions.		2	1 1		1	3
Hernias, intestinal obstructions. Inguinal hernia. Intestinal obstruction.			5 1			5 1
Diseases of the anus and fecal		2	10		3	16
fistulasOther diseases of the intestines.	2		3			$\frac{3}{2}$
Duodenal ulcer	3					1
Cirrhosis of the liver	3	2	9 3	2	3	17 6
Abscess of liver (unqualified) Amebic abscess of the liver	8	1				9
Jaundice Other diseases of the liver		3	4	3	1	4 7
Other diseases of the spleen		1				1
Simple peritonitis (nonpuer- peral)Other diseases of the digestive system (cancer and tubercu-	3	5	6	5	10	29
losis excepted)		2				2
VI. Nonvenereal diseases of the genito-urinary system and annexa.						
Acute nephritis	9	3	7	6	6	31
phritis). Pyelo-nephrosis. Diseases of the bladder.	42 4	$\frac{28}{2}$	65	10	14	$\begin{array}{c} 159 \\ 6 \end{array}$
Diseases of the bladder Cystitis			$\frac{2}{3}$	1		2
Other diseases of the urethra, urinary abscess, etc			1			1
rrypertrophy of prostate			î			i
Uterine hemorrhage (nonpuerperal)			1			1
Uterine tumor (noncancerous). Cysts and other tumors of the ovaries.	1		1			$\begin{array}{c c} 2 \\ 1 \end{array}$
Salpingitis and other diseases of the female genital organs.						1
VII. The puerperal state.						
Abortion		2	2		3	$\frac{2}{8}$
Other accidents of labor					1	1
A bortion . Puerperal hemorrhage. Other accidents of labor . Puerperal septicemia . Puerperal albuminuria and	3	2	4	2	3	14
convulsions. Eclampsia.			1	2	1	4

Diseases.	Ancon Hos- pital.	Colon Hos- pital.	Pan- ama.	Colon.	Zone.	Total.
VIII. Diseases of the skin and of the cellular tissue.						
Gangrene. Furuncle Carbuncle. Acute abscess.	1		2 1 1			$\begin{bmatrix} 2\\1\\1\\1\\1\end{bmatrix}$
Ulcerating granuloma of the pudenda	1					1
the organs of locomotion.  Caries (nontuberculous)			9			
Mastoid abscess		1				
Other diseases of the organs of locomotion					-	
X. Malformations.						
Congenital malformations (still- birth not included)		-		. 1	1	
XI. Diseases of early infancy.  Congenital debility, icterus,						
and sclerema	$\begin{bmatrix} 3\\3 \end{bmatrix}$		15	23 7	18	6
infancy	6 . 1 . 1	$\frac{2}{2}$	9 23 2	. 2 17 4 . 1	59	100
XII. Old age.					10	2
Senility  XIII. Affections produced by external causes.	. 1		. 9	1	. 10	
Suicide:  By poisoning  By firearms			1	3	32	
struments	-		. 1			-
place					2	
Other acute poisonings. Conflagration Burns (conflagrationexcepted)		1 1 4				
Absorption of deleterious gases (conflagration excepted)	3				2 28	
Accidental drowning Traumatism: By firearms					2	
By cutting or piercing in struments.  By fall		i		1		4

Diseases.	Ancon Hos- pital.	Colon Hos- pital.	Pan- ama.	Colon.	Zone.	Total.
XIII. Affections produced by external causes—Continued.						
Traumatism—Continued. In mines and quarries By machines By other crushings (ve-	3 2	3			12 5	15 10
hicles, railroads, land- slides, etc.)	23	22	1	1	73 2 9	120 2 9
Homicide:  By firearms	. 2				3	5
struments  By other means  Fractures (cause not specified). Other external violence		1	6	1	$\frac{5}{2}$	6 3 6
Other external violence Legal execution		1	1		1 1	3 1
XIV. Ill-defined diseases.  Ill-defined organic diseases			1	1	1	3
Sudden death  Cause of death not specified or ill-defined		1	38	2	11	58
Infections of undetermined origin	12	6	4			22
TotalStillbirths	516 3	293 6	1,356 152	335 45	711 109	3, 211 315
Grand total	519	299	1,508	380	820	3, 526

Note.—The deaths occurring in Ancon and Colon Hospitals result from sick. injury, or other cases taken from the cities of Panama and Colon, or from the Canal Zone, and in the table of vital statistics are properly credited to either Panama, Colon, or the Canal Zone.

Table Showing Discharges and Deaths of Employees in the Hospitals of the Isthmian Canal Commission, from All Causes, for the Year 1910.

Diseases.	Dis- charged.	Died.
I. General diseases.		
Typhoid fever	113	12
Relapsing fever.	2	
Malaria	249	
Estivo-autumnal	4,628	36
Tertian	952	
Quartan. Mixed.	43 47	1
Undetermined	202	
Clinical	3,268	
Cachexia	20	

Table Showing Discharges and Deaths of Employees in the Hospitals of the Isthmian Canal Commission, from All Causes, for the Year 1910—Continued.

Diseases.	Dis- charged.	Died.
I. General diseases—Continued.		
	477	e
Hemoglobinuric fever. Vaccinia.	47 11	6
Measles	15	
Diphtheria and croup.	1 307	
Influenza. Dysentery.	10	2
Amœbic	51	4
Bacillary Clinical	126	1 11
Leprosy	1	
Erysipelas.	5 4	
Chicken pox. German measles	4	
Mumps	65	
Yaws. Other epidemic diseases. Purulent infection and septicemia.	3 9	
Purulent infection and septicemia.	5	4
Pvemia	1	5
Septicemia Pyemia and septicemia, pneumococcic. Tetanus		4 2 2 2
Tetanus		2
Pellagra	$\frac{2}{1}$	2
Beriberi Tuberculosis of the lungs	134	39
Acute miliary tuberculosis		4
Tuberculous meningitis		2 4
Pott's disease.	7	1
Tuberculosis:		
Of bones and joints. Of the lymph glands.	8 9	
Of the genito-urinary organs	9	
Tuberculous abscess.  Tuberculosis of other organs.	6 2	
Disseminated tuberculosis.	ī	26
Syphilis	1	
A. Primary	9 72	
B. Secondary	120	1
D. Hereditary. E. Period not stated	1 17	
E. Period not stated	231	
Adenitis chancroidal	464	
Gonococcus infection. Gonorrhea.	98 331	
Gonorrheal arthritis	34	
Gonorrheal ophthalmia. Cancer and other malignant tumors:	11	
Cancer and other malignant tumors:  Of the buscal cavity	1	
Of the stomach and liver	î	
Of the stomach and liver. Of the peritoneum. intestines, rectum.	$\frac{1}{3}$	1
Of other organs and of organs not specified.	3 7	2
Of the skin. Of other organs and of organs not specified. Tumor of brain Other tumors (tumors of the female genital organs excepted) Acute articular rheumatism.	1	
Other tumors (tumors of the female genital organs excepted)	31 36	. 1
Onfolic meditatism and godt	15	
Arthritis deformans	56	
Muscular rheumatism	5	····i
Addison's disease	1	

Table Showing Discharges and Deaths of Employees in the Hospitals of the Isthmian Canal Commission, from all Causes, for the Year 1910—Continued.

Diseases.	Dis- charged.	Died.
I. General diseases—Continued.		
Anemia, chlorosis.	66	1
Chlorosis Anemia, primary, pernicious	1	
Other general diseases.	18	
Alcoholism:		
Acute or chronic		
A localistic may shooting		2
Alcoholic psychosis. Other chronic poisonings.	13 1	• • • • • • • • • • • • • • • • • • • •
o who chi one polocina go	1	
II. Diseases of the nervous system and of the organs of special sense.		
Simple meningitis.	1	6
Locomotor ataxia	1	
Other diseases of the spinal cord	6	2 6
Cerebral hemorrhage, apoplexy	4	6
Paralysis without specified cause	13	1
General paralysis of the insane. Other forms of mental alienation.	1	
Other forms of mental alienation.	30	1
Epilepsy		1
Hystēria. Neuralgia.	7 33	*******
Neuritis	84	
Tumor of the brain		1
Neurasthenia. Other diseases of the nervous system	149	
Follicular conjunctivitis.	68	1
Trachoma	4 3	
Trachoma. Other diseases of the eye and its annexa.	710	
Diseases of the ear	176	
III. Diseases of the circulatory system.		
PericarditisAcute endocarditis	1	
Acute endocarditis	6	
Organic disease of the heart Aneurism	44	11 2
Arterio-sclerosis.	7 21	
Arterio-sclerosis. Other diseases of the arteries.	18	
Hemorrhoids	120	
Varices Varicocele	17 41	
Phlebitis	1	
Other diseases of the veins.	7	
Lymph adenitis (nonvenereal)	150	
Other diseases of the lymphatic system Other hemorrhages; other diseases of the circulatory system	აგ	·····i
	••••••	*
IV. Diseases of the respiratory system.		
Adenoid vegetations.	10	
Inflammation of accessory nasal sinuses.  Myiasis of nasal fossæ and sinuses.	45 20	
Other diseases of nasal fossæ	184	
Larvngitis	5	
Other diseases of the larynx Diseases of the thyreold body.	2	
Acute bronchitis	2 317	
Chronic bronchitis.	63	

Table Showing Discharges and Deaths of Employees in the Hospitals of the Isthmian Canal Commission, from All Causes, for the Year 1910—Continued.

Diseases.	Dis- charged.	Died.
IV.—Diseases of the respiratory system—Continued.		
Broncho-pneumonia. Pneumonia (unqualified) Lobar pneumonia. Pleurisy Empyema. Pulmonary congestion, pulmonary apoplexy Gangrene of the lungs Asthma Pulmonary emphysema	28	4
Pneumonia (uncualified)	10	1
Lobar pneumonia	176	63
Pleurisy	122	12
Empyema.	11	12
Pulmonary congestion, pulmonary apoplexy	4	
Gangrene of the lungs		3
Asthma	50	
Pulmonary emphysema. Other diseases of the respiratory system (tuberculosis excepted).	20 12	
V. Diseases of the digestive system.		
Diseases of the teeth and gums	19	
Stomatitis.	6	
Stomatitis. Other diseases of the mouth and annexa.	45	
Pharyngitis		
Follicular tonsi litis	85	
Other diseases of the pharynx	65	
Foreign body in the esophagus	1	
Ulcer of the stomach.	9	
Acute gastritis. Chronic gastritis:	26	
Unronic gastritis:	35 76	
Acute indigestion Other diseases of the stomach (cancer excepted). Diarrhea and enteritis (2 years and over).	17	
Diarrhea and enteritie (2 years and over)	166	3
Ankylostomiasis.	56	
A scariasis.		
Tapeworm	6	
Strongyloides. Other intestinal parasites.	5	
Other intestinal parasites	9	
Appendicitis and typhlitis Hernias, intestinal obstructions.	197	1
Hernias, intestinal obstructions	15	2
Hernia, inguinal. Other hernias	225	
Uther nernias.	27	
Intestinal obstruction	45	1
Diseases of the anus and fecal fistulas Other diseases of the intestines	95	
Duodenal ulcer	7	2
Duodenal ulcer. Hydatid tumor of the liver.		2
Cirrhosis of the liver	40	
Biliary calculi Abscess of the liver (unqualified) Amœbic abscess of the liver Cholecystitis	5	
Abscess of the liver (unqualified)	5 8 5 8	1
Amæbic abscess of the liver	5	7
Cholecystitis	8	
Jaundice	30	····i
Other diseases of the liver	18	1
Other diseases of the spleen. Simple peritonitis (nonpuerperal). Other diseases of the digestive system (cancer and tuberculosis	4	$\frac{1}{2}$
Other diseases of the digestive system (cancer and tuberculosis	- 4	
excepted)	4	
VI. Nonvenereal diseases of the genito-urinary system and annexa.		
Acute nephritis	32	5
Bright's disease (chronic nephritis)	176	29
Movable kidney	2	
Pyelo-nephrosis.	$\frac{1}{2}$	
Acute nephritis. Bright's disease (chronic nephritis). Movable kidney. Pyelo-nephrosis Other diseases of the kidney and annexa.	7	

Table Showing Discharges and Deaths of Employees in the Hospitals of the Isthmian Canal Commission, from All Causes, for the Year 1910—Continued.

	ois- rged.	Died.
VI. Nonvenereal diseases of the genito-urinary system and annexa—Continued.		
Calculi of the urinary passages.	14	
Diseases of the bladder	10	
Cystitis	33 89	
Stricture of the urethra Other diseases of the urethra, urinary abscess, etc.	14	
Acute prostations	2	
Chronic prostatitis. Abscess of the prostate.	1	
Other diseases of the prostate	1	
Hematocele	$\frac{2}{72}$	
Lymph scrotum and variy	5	
Hydrocele Lymph scrotum and varix Other nonvenereal diseases of the male genital organs	173	
Uterine nemorrhage (nonpuerperal)	$\frac{1}{2}$	
Metritis	5	
Other diseases of the uterus.  Cysts and other tumors of the ovaries.  Salpingitis and other diseases of the female genital organs.  Nonpuerperal diseases of the breast (cancer excepted).	2	
Salpingitis and other diseases of the female genital organs	1	
Nonpuerperal diseases of the breast (cancer excepted)	1	
VII. The puerperal state.		
Normal labor	1	
Abortion	1	
VIII. Diseases of the skin and of the cellular tissue.		
Gangrene.	1	
Furuncle	79	
Carbuncle	22	
Acute abscess	164	
Phlegmon Trichophytosis	2	
Scabies	7	
Other diseases of the skin and annexa	335	
Mycetoma	1	
Filaria medinensis.	3	
Elephantiasis	6 2	
Dhobie itch	26	
Ulcer of the skin	162	
Tropical ulcer Ainhum.	$\frac{6}{2}$	
Impetigo contagiosa.	5	
IX. Diseases of the bones and of the organs of locomotion.		
Caries (nontuberculous)	6	
Mastoid abscess	9	
Osteomyelitis	5 14	
Periostitis. Other diseases of the bones (tuberculosis excepted)	26	
Ankylosis	3	
Arthritis	89 43	
Synovitis. Other diseases of the joints (tuberculosis and rheumatism ex-		
cepted)	42 161	
Amputations. Other diseases of the organs of locomotion.	101 85	

Table Showing Discharges and Deaths of Employees in the Hospitals of the Isthmian Canal Commission, from All Causes, for the Year 1910—Continued.

Diseases.	Dis- charged.	Died.
X. Malformations.		
Congenital malformations (still birth not included)	7	
XI. Affections produced by external causes.		
Poisoning by food Venomous bites and stings. Snake bites. Other acute poisonings Burns (conflagration excepted). Traumatism: By firearms. By cutting or piercing instruments. By fall. In mines and quarries. By machines. By other crushings (vehicles, railroads, landslides, etc.). Overexertion Heat exhaustion Electricity (lightning excepted). Homicide by firearms. Dislocations Sprains. Fractures (cause not specified). Other external violence.	363 1 1 3	3 4 7 4 33 2 2
XII. Ill-defined discases.		
Ill-defined organic diseases Cause of disease or death not specified or ill-defined No disease, feigned disease. Infections of undetermined origin.	21 87 51 42	9
Total	21,568	404

#### CONSOLIDATED HOSPITAL REPORT.

Hospitals.	Ro ma in Jan	in- g	Admitted		Died.		Died. Discharged.			Trai ferre		Ro ma in Dec.	in- g
	W.	C.	w.	C.	w.	C.	W.	C.	w.	C.	w.	C.	
Ancon Hospital.  Employees Nonemployees Insane	54	268 54 218	1,954			212 184 31		8,037 1,166 122	79	34	83	294 68 267	
Total	326	<b>5</b> 40	10, 490	10,001	89	427	7, 521	9, 325	2,845	160	361	629	
Colon Hospital. Employees Nonemployees	103 39	183 50				103 141		2,095 700	569 12			98 69	
Total	142	<b>2</b> 33	3,890	3, 523	<b>4</b> 9	244	3,285	2,795 ===	581 ====	550 ===	117	167	

#### CONSOLIDATED HOSPITAL REPORT—Continued.

Hospitals.	Re- main- ing Jan. 1.		Admitted.		Admitted. Died.		Died.			Dis- charged.		ns-	Re mai ing Dec.	in-
	W.	C.	W.	C.	W.	C.	W.	C.	w.	C.	W.	C.		
Culebra Hospital.				,										
Employees	1 4	1 7	3 100	$\begin{array}{c} 1 \\ 262 \end{array}$		··· <u>2</u>	2 96	1 239	$\frac{2}{6}$	$\frac{1}{22}$	2	6		
Total	5	8	103	263		2	98	240	8	23	2	6		
Palo Seco Leper Asylum.														
Employees	<u>i</u>	1 32	1	3 11		3		4 6			1 1	34		
Total	1	33	1	14		3		10			2	34		
Taboga Sanitarium.														
Employees	57 5		$3,191 \\ 761$				3,164 756		33 2	• • •	51 8			
Total	62		3,952				3,920		35	• • •	59			
Grand total: Employees Nonemployees Insane	103		14,868 3,521 47		56	330	11, 452 3, 341 31	2,111	99	577 106 50	128	392 177 267		
Total	536	814	18,436	13,801	138	676	14,824	12,370	3, 469	733	541	836		

#### CONSOLIDATED SICK CAMP REPORT.

Stations.	R ma in Jan	in- g	Adm	itted.	Die	d.	D. char		Tra feri	ins- red.	Remain Dec.	in- g
	W.	C.	W.	C.	w.	C.	W.	C.	w.	C.	w.	C.
Ancon	8	3	463	396			460	382	11	17		
Corozal	1		78	150			51	86	28	64		
Miraflores	12	3 7	689	568 667	• • • •		521	$\frac{465}{524}$	$\frac{167}{147}$	103 145	3	3 5
Pedro Miguel	3	2	$\frac{550}{212}$	355		2	$\frac{397}{186}$	290	26	65	9	0
Culebra	1	3	503	659		ī	326	333	171	323	7	5
Empire		8	326	692			265	545	54	150	7	5 5 3
Las Cascadas	3	4	569	462	1	3	445	386	123	74	3	3
Bas Obispo	2	5	464	545		3	367	430	98	109	1	8
Gorgona			176	590		1	138	455	38	126		8
San Pablo	1	12	468	533			347	417	114 129	122 243	8	6
Tabernilla Frijoles		4	544	$1,152 \\ 302$			410	907 236	129	70	10	0
Bohio		2	1	99			1	59		42		
Gatun	4	19	1,913	3,120		1	1,235	2,068	672	1,062	10	8
Cristobal		10	309	951		1	211	613	96	338	2	9
Porto Bello	8	4	429	593	1	1	319	434	113	155	4	7
Nombre de Dios.		1	29	159			25	150	4	10		
Toro Point			103	172			96	156	5	13	2	3
Total	38	91	7,826	12, 165	2	13	5,800	8,936	1,996	3,231	66	76

#### CONSOLIDATED REPORT OF EMPLOYEES SICK IN QUARTERS.

Stations.	Days exc qua	cused for rters.	New patients ex- cused for quar- ters.		
	White.	Colored.	White.	Colored.	
Ancon. Balboa Corozal Miraflores Pedro Miguel Paraiso Culebra Empire Las Cascadas Bas Obispo Gorgona. San Pablo Tabernilla Frijoles Bohio Gatun Cristobal Porto Bello Nombre de Dios Toro Point	736 423 466 109 733 710 1,057 1,616 835 452 2,898 233 306 69 26 1,975 3,664 479 126 274	45 57 40 8 161 33 3 3 1 4 73 8 2 3,806	297 314 254 74 383 251 462 590 301 156 1,422 89 132 28 13 975 1,631 275 76 188	43 42 13 6 83 14 1 1 3 47 6 1 799	
Total	17,187	4,755	7,911	1,378	

## CONSOLIDATED HOSPITAL, SICK CAMP, AND SICK-IN-QUARTERS REPORT.

	ir	Remaining Admitted. Jan. 1.					ois- rged.	Trans- ferred.		Remaining Dec. 31.		
	w.	C.	w.	C.	w.	C.	w.	C.	W.	C.	w.	C.
Hospitals Sick camps	536 38			13,801 12,165				12,370 8,936				836 76
Total	574	905	26,262	25,966	140	689	20,624	21,306	5, 468	3,964	607	912
								White	e. C	olored.	То	tal.
Total admissions Number of empl	s to h	nospi s sic	tals an k in qu	d sick arters.	cam	ps		26, 26 7, 9		25,966 1,378		, 228 , 289
Total Less number of p to hospitals, a	natie	nts t from	ransfer hospi	tals to	sar	iitari	ium.	34,17		27,344		,517
whose admissions are duplicated in above figures  Net admissions to hospitals and sick camps, and those sick in quarters					28,70		3,964 23,380		,429			

#### CONSOLIDATED DISPENSARY REPORT.

Stations.	Empl	oyees.	Nonem	ployees.	Total.		
	White.	Colored.	White.	Colored.	White.	Colored.	
Ancon	6,909	11,838	2,207	1,868	9,116	13,700	
Balboa	12,330	16,394	2,921	1,270	15,251	17,664	
Corozal	8,965 $9,062$	5,809 $10,955$	2,666 $207$	508 467	11,631 $9,269$	6,317 $11,425$	
Pedro Miguel	15,285	13, 242	2,137	1,268	17,422	14,510	
Paraiso	4,858	3,870	2,930	1,283	7,788	5, 15	
Culebra	22,404	19,277	9,352	7,252	31,756	26,529	
Empire	17,578	20,946	9,146	6,390	26,724	27,330	
Las Cascadas Bas Obispo	11, 192 18, 707	7,623 $16,381$	5,881 3,110	$\begin{bmatrix} 3,274 \\ 2,146 \end{bmatrix}$	$17,073 \\ 21,817$	10,89 18,52	
Gorgona	25,125	22,807	7,409	4,785	$\frac{21,817}{32,534}$	27, 59	
San Pablo	7,193	6,692	851	1,382	8,044	8,07	
Tabernilla	7,499	7,415	1,540	1,499	9,039	8,91	
Frijoles	1,703	7,109	22	334	1,725	7,443	
Bohio	372	4,392	106	3,097	478	7,489	
Gatun	36,790	46,064	3,577	2,263	40,367	48, 32	
Cristobal	20,182 $9,223$	$22,405 \\ 12,262$	$6,910 \\ 242$	$4,189 \\ 261$	27,092 $9,465$	26,59 $12,52$	
Nombre de Dios	1,163	$\frac{12,202}{2,780}$	31	2,021	1,194	4,80	
Toro Point	3,854	3,972	117	66	3,971	4,03	
Total	240, 394	262,233	61,362	45,623	301,756	307,850	

## AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS, SICK CAMPS, AND QUARTERS.

		•			Hospitals.	
				White.	Colored.	Total.
Ancon Hospital Colon Hospital Culebra Hospital Palo Seco Leper As Taboga Sanitarium	ylum			316. 02 117. 13 . 09 . 17 66. 32	370. 37 139. 73 . 09 . 73	686. 39 256. 86 . 18 . 90 66. 32
Total				499.73	510.92	1,010.65
	S	Sick camps		Sic	k in quarte	ers.
	White.	Colored.	Total.	White.	Colored.	Total.
Ancon. Balboa. Corozal. Miraflores. Pedro Miguel. Paraiso. Culebra. Empire. Las Cascadas. Bas Obispo.	3.08 .33 4.22 5.36 1.91 4.27 2.96 5.21 4.78	2.47 .67 3.35 5.81 3.02 4.00 5.59 4.37 6.19	5. 55 1. 00 7. 57 11. 17 4. 93 8. 27 8. 55 9. 58 10. 97	2. 02 1. 16 1. 28 . 30 2. 01 1. 95 2. 90 4. 43 2. 29 1. 24	. 12 . 16 . 11 . 02 . 44 . 09 . 01	2. 02 1. 28 1. 28 1. 28 2. 12 1. 97 3. 34 4. 52 2. 30 1. 24

## AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS, SICK CAMPS, AND QUARTERS—Continued.

	S	sick camps		Sick in quarters.			
	White.	Colored.	Total.	White.	Colored.	Total.	
Gorgona. San Pablo. Tabernilla Frijoles. Bohio. Gatun. Cristobal Porto Bello. Nombre de Dios. Toro Point.	1. 34 5. 46 4. 86 12. 36 2. 91 4. 25 . 19 3. 78	5. 25 6. 45 10. 44 1. 23 . 44 19. 04 8. 88 4. 58 1. 21 5. 43	6. 59 11. 91 15. 30 1. 23 . 44 31. 40 11. 79 8. 83 1. 40 9. 21	7. 94 . 64 . 84 . 19 . 07 5. 41 10. 04 1. 31 . 35 1. 80	.01 .20 .02 .01 10.43	7. 94 . 64 . 85 . 39 . 09 5. 42 20. 47 1. 10 3. 39	
Total	67. 27	98.42	165.69	48. 17	13.96	62. 13	

#### AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK.

	White.	Colored.	Total.
Hospitals	67.27	510. 92 98. 42 13. 96	1,010.65 165.69 62.13
Total	615. 17	623.30	1, 238. 47

#### AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK PER 1,000.

	White.	Colored.	Total.
Hospitals. Sick camps. Sick in quarters.		13.52 2.61 .37	19. 89 3. 26 1. 22
Total	47. 24	16.50	24.37

## AVERAGE NUMBER OF DAYS' TREATMENT PER EMPLOYEE IN HOSPITALS, SICK CAMPS, AND QUARTERS.

Hospitals.	White.	Colored.	Total.
Ancon Hospital. Colon Hospital. Culebra Hospital Palo Seco Leper Asylum Taboga Sanitarium	13.34 8.00 61.00	16. 24 18. 90 16. 00 67. 75	14. 90 15. 88 10. 67 83. 00 7. 57
Total	12.25	16.91	14.23

AVERAGE NUMBER OF DAYS' TREATMENT PER EMPLOYEE IN HOSPITALS, SICK CAMPS, AND QUARTERS—Continued.

	S	Sick camps.			Quarters.	
	White.	Colored.	Total.	White.	Colored.	Total.
Ancon	2.39	2.26	2.35	2.48 1.35	1.05	2.4 1.3
Corozal	1.51 $2.24$	1. 64 2. 15	$ \begin{array}{c c} 1.60 \\ 2.20 \end{array} $	1.83 1.47	1.36	1.8 1.4
Pedro Miguel Paraiso	3.60 3.29	3. 17 3. 09	3.36 3.17	$\frac{1.91}{2.33}$	3.08 1.33	$\frac{1.9}{2.7}$
Culebra Empire	3.14	2.22 2.94	2. 62 3. 08	2. 29 2. 74	1.94 2.36	2. 2 2. 7
Las Cascadas	3.34 3.75 2.78	3. 44 4. 17 3. 29	3.39 3.98 3.17	2.77 2.90 2.04	3.00	2.7 2.9 2.0
Gorgona	4. 33 3. 29	3. 29 4. 37 3. 31	4.35 3.31	2. 62 2. 32	1.00 1.33	2. 6 2. 6 2. 3
Frijoles	1.00	1.46	1.46 1.58	2.46 2.00	1.55	1.8
GatunCristobal	2.37	2. 22   3. 41	2. 28 3. 42	2. 03 2. 25	2.00 4.76	2.0
Porto Bello Nombre de Dios	3.58 2.34	2.83 2.77	$\begin{array}{c} 3.15 \\ 2.70 \end{array}$	1.74 1.66	2.09	1.7 1.9
Foro Point	3.45	2.96	3.14	1.46	1.52	1.8
Total	3.02	2.83	2.90	2.17	3.45	2.

#### SUBSISTENCE AND OPERATING EXPENSES.

	Hospitals.	Sick camps.	Total.
SUBSISTENCE EXPENSES.  Number of days' rations issued to patients.  Cost of rations issued to patients.  Cost of subsistence per patient per day.  OPERATING EXPENSES.	565, 124 \$145, 289. 01 \$0. 257	57, 976 \$14, 114, 17 \$0, 243	623, 099 \$159, 403. 18 \$0. 255
Number of days' relief furnished patients Cost of operation. Cost per capita per day. Cost of operation with amount received from outside patients deducted Cost per capita per day with above deduction Cost of dispensaries.	565, 123 \$705, 550. 19 \$1. 25 \$587, 278. 83 \$1. 07 \$170, 270. 12	57, 976 \$25, 921. 33 \$0. 45 \$25, 921. 33 \$0. 45	623, 099 \$731, 471. 52 \$1. 17 \$613, 200. 16 \$0. 98

# Outside Patients Treated in Hospitals and Amounts Collected for Their Treatment.

	Number of cases treated.	Number of days' relief.	Amount.
Patients for whom the Republic of Panama pays 75 cents per day. Patients for whom the Canal Zone government pays 30 cents per day. Patients paying 30 cents per day for themselves. Patients from the Republic of Panama paying other prices. Patients from the Canal Zone paying other prices. Patients from the Canal Zone not paying. Patients from the Republic of Panama not paying. Total.	2,372 353 1,944 1,195 2,959 2,672 698 12,193	66, 875 8, 925 20, 355 10, 622 22, 368 53, 575 10, 572 193, 292	\$50, 214. 50 2, 669. 40 6, 106. 50 22, 112. 30 31, 367. 75

Note.—Patients carried from one month to another are considered as separate cases in above table.

## SURGICAL OPERATIONS PERFORMED IN HOSPITALS.

	Number.	Died.
Amputations:		
Shoulder	2	
Λrm	1	
Forearm		
Hand	4	
Thigh	20	4
Leg	28	1
Foot		
Digits, multiple		
Thigh, double	I	
Leg, double	. 1	
Arm and leg.	. 1	]
Operations on bones:	1	
Craniectomy, decompressive	. 18	6
Craniectomy, exploratory	$\frac{1}{2}$	
Laminectomy	. 5	4
Ostiectomy		
Resection of wrist		
Resection of hip	. 1	
Wiring of fractures—		
Simple	. 36	
Compound	. 25	
Adenectomy:	1	
Cervical	. 27	1
Axiallary	. 13	
Inguinal—		
Single		
Double	. 95	
Femoral	. 22	
Herniotomy:		
Inguinal—		
Single	. 168	
Double	111	
Femoral	. 5	
Ventral.		
Combined (any two of the above)	. 3	
Strangulated	9.4	1

# SURGICAL OPERATIONS PERFORMED IN HOSPITALS-Continued.

	Number.	Died
Genito-urinary tract:		
Nephrotomy	3	
Nephrectomy	2	
Nephropexy Perinephritic abscess, drainage of	1	
Perinephritic abscess, drainage of	2	
Urethrotomy	47	
Internal External	47 65	
Prostatectomy.		
Variocele, radical cure		
Hydrocele—		
Single, radical cure		
Double, radical cure.		
Orchidectomy		
Epididymotomy	33	
Vasectomy.	2	
Amputation of penis. Amputation of penis and scrotum.	$\frac{2}{2}$	
Curettage uteri		
Perineoplasty		
Trachelorchaphy		
Vaginal sections		
Vaginal punctures	6	
Obstetrical:		
Cæsarian section, abdominal		
Accouchement force		
High forceps		
Version		
Perineorrhaphy		
Thorax:		
Thoracotomy	15	
Thoracoplasty	. 1	
Excision of breast	4	
Excision of breast and axilla.		
Gunshot wound of chest, operation for	1	
Rectum:	1	
Hemorrhoids, radical cure	147	
Fistula in anus, excision of	34	
General:		
Thyroidectomy	. 4	
Nerve stretching	. 3	
Aneurismorrhaphy	2	
Varicose veins, excision of	10	
Tenorrhaphy		
MyorrhaphyExcision of surface neoplasms	8	
Gunshot wound of soft parts, operation for	6	
Stab wound of soft parts, operation for	Ĭ	
Stab wound of soft parts, operation for Extensive injuries to soft parts, operation for	. 11	
Plastic operation for—		
Congenital defect		
Severe injuries		
Effects of disease	19 51	
Skin graftLaparotomy:	91	
For general peritonitis	15	
For tuberculous peritonitis.		
For intestinal obstruction		
Exploratory	. 29	
Gastrotomy	. 1	
Gastro-enterostomy		
Enterectomy	. 1	

# SURGICAL OPERATIONS PERFORMED IN HOSPITALS-Continued.

	Number.	Died.
Laparotomy—Continued.		
Appendectomy	193	
Appendectomy with—		
Local peritonitis		
General peritonitis		1
Cæcostomy		1
Colostomy		1
Sigmoidopexy		
Cholecystotomy		
Cholegystostomy		
Cholecystectomy Choledochotomy		
Abscess of liver—		
Laparo-hepatotomy for	. 12	4
Thoraco-hepatotomy for		5
Splenectomy.		"
Pan-hysterectomy.		
Supravaginal hysterectomy		
Hysteromyomectomy		
Myomectomy		
Salpingectomy:		
Single	. 15	
Double	. 8	
Salpingo-oophorectomy	. 14	
Ovarian cystectomy	. 14	
Oophorectomy	. 1	
Suspensio-uteri	. 44	
Suspensio-uteri. Plastic operation for chronic pelvic peritonitis	. 36	1
For ectopic gestation	. 8	
For trauma:		
General peritonitis	. 1	1
Hematoperitoneum Rupture of liver	. 2	
Rupture of liver	2 3 2	2
Gunshot wound of abdomen.		1
Stab wound of abdomen.	. 1	
Major operations, various other		3
Minor operations, various	3,791	1
Total	3 574	60
T Utal	6,574	6,8

# OPERATIONS AND WORK PERFORMED IN EYE, EAR, NOSE, AND THROAT CLINICS.

Operations.	Number.	Died.
Adenectomy	16	
Adenectomy and tonsillectomy	77	
Adenectomy and tonsillotomy. Advancement of internal rectus.	9	
Amputation of uvulva	4	
Advancement of external rectus	7	
Cataract:	8	
Discission of. Needling.	6	
Curettage of middle ear	1	
Dacryocystotomy	3	
Dilation of lacrimal stricture	5	
Frontal sinus	7	
Maxillary sinus	10	
Sphenoid sinus. Enucleation.	10	

# OPERATIONS AND WORK PERFORMED IN EYE, EAR, NOSE, AND THROAT CLINICS—Continued.

Operations.	Number.	Died
Evicacration	11	
Evisceration Excision, dermoid, cyst, upper lid. Expression for—	i	
Follicular conjunctivitis	. 5	
Trachoma. Extraction of cataract.	.   6	
Grattage of eyelids	ĭ	
Grattage of eyelids	į .	
Abscess, Calvarian	. 1	
Lacrimal sac		
Dacryocyst Furuncle, ear	2 3	
Larynx	1	
Peritonsillar abscess		
Postaural abscess Retropharyngeal abscess	1	
Iridectomy Lacrimal canaliculus incised Lacrimal duct probed	21	
Lacrimal canaliculus incised	3 10	
Mastoidotomy:		
Simple. Radical		
Meato-mastoidotomy	. 2	
Ossiculectomy	4 3	
Paracentesis of—		
Cornea	. 10	
Membrana tympani	$\frac{25}{1}$	
Plastic:		
On ear		
On eyelid On lip.		
On nose	.  10	
PharynxPterygium	$\frac{1}{32}$	
Removal of—		
Bullet from earBullet from jaw	_	
Bullet from nose	. 1	
Aural polyp		
Nasal polyp		
Nasal spur	. 1	
Screw worm from nose		
Uvula polyp	1	
Sinusotomy, maxillary exploratory. Submucous resection of nasal septum	1 173	
Suture, lacerated selera	1/3	
Tenotomy	. 7	
Tonsillectomy		
Tonsillotomy Transplanting operation for pterygium	24	
Turbinectomy	986	
TotalRefractions	2.240	
Outside cases treated	14, 562	
Grand total	18,523	
Grand Widt	10,020	1

# CONSOLIDATED WARD LABORATORY REPORT OF ALL HOSPITALS.

Blood examinations	23, 269
Estivo autumnal	6, 634
Tertian—	<i>'</i>
Single	1,741
Double	164
Mixed tertian and estivo autumnal	280
Quartan	223
Lepra bacılli	2
Differential blood counts	1,520
Leucocyte counts	2,700
Red blood counts	329
Red and white blood counts	11
Hemoglobin estimations	547
Filana	29
Spirilla obermeieri	3
Crescents	3
Guaiac and turpentine tests for invisible blood	71
Stool examinations	10, 218
Ascaris lumbricoides	574
Uncinaria ova	1,380
Uncinaria worms	163
Tricocephalus dispar	1, 065
Strongyloides intestinalis.	393
Tenia	16
Tenia saginata	2
Ameba	361
Ameba coli	26
Ameba dysenteria.	1
Ciliated monads	$37\overline{4}$
Bilharzia	. 10
Pus and blood	789
Pus and epithelial cells.	53
Balantidium coli	12
Tubercular bacilli.	22
Lepra bacilli.	2
Bacilli coli	ĩ
Oxyuris vermicularis.	ī
Entomaoba, hystolitica.	$\hat{\bar{5}}$
Thymol treatments.	26
Urine examinations	33, 354
Albumen	9, 357
Albumen and casts	5, 853
Sugar	123
Pus and blood	812
Gonococci	15
Hemoglobin	12
Bile	3
Diazo reactions.	35
Microscopical examinations. Urea estimations.	782
Urea estimations	117
Dyslococci	2
Tubercle bacilli	10
Hemin crystals	30

Urine examinations-	-Co	$_{ m nti}$	nued.									
Guaiac test												75
Glucose	Glucose											
Red blood cells.												4
Sputum examination	Sputum examinations.											
Tubercular bacilli												15 88
Pneumococci												6
Miscellaneous:												
Examinations of—												
Pleural effusions												1
												27
Spinal fluid												44
Vaginal and urethral discharges												24
Pus, blood, and tissue												33
Gastric analysis.	uib (		arcc								•	45
Gastric anarysis.		•••				••				•		10
ANCON HOODIMAT												
ANCON HOSPITAL.												
Re-												<b>)</b>
	ma		Adm	itted.	Die	d		is-	Tran	ans-   mai		
	in	g	Aum	icteu.	Die	u.	char	ged.	ferre			g
Class.	Jan	. 1.									Dec. 31	
										_		
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
Table steer Coural Communic												
Isthmian Canal Commission employees	244	197	8,120	6,537	43	166	5.445	6.276	2,637	63	239	229
Panama R. R. employees		71	369		4	46	238	1,761	119		8	
Pay patients	49	34	1,727	850	31	79	1,608	754	73		64	
Charity patients		$\frac{20}{218}$	227 47	$548 \\ 252$	$\frac{8}{3}$	$\begin{vmatrix} 105 \\ 31 \end{vmatrix}$		412 122			19	$\begin{array}{c} 33 \\ 267 \end{array}$
Insane patients		210	41	202		-01	- 31	122	10			
*Total	326	540	10,490	10,001	89	427	7,521	9,325	2,845	160	361	629
						_	<u> </u>	<u> </u>				
Average number of o	lays	s' t	reatm	ent p	er e	em	ploy	ee fo	r the	9		
year:	·			-								
White											13.	59
Colored											16.	24
Total											14.	90
										_		
Average number of e	emp	lov	ees c	onsta	ntly	z si	ck d	urin	g the	9		
year:	1	-							0			
White											316.	02
Colored											370.	
0010101111111111		• •				• • •						
Total											686.	39
10(41		• •								_		
Number of days' relie	of fu	rni	shed	patie	nts					3	94. 7	703
Cost of subsistence p	er r	ati	ent n	er da	V.						\$0. 2	225
cost of emparatement p	- I	-cet1	опе р	J. (111	<i>y</i>							

(1)	Number	Amer	ricans.	Other nations.			
Class.	treated.	White.	Colored.	White.	Colored.		
Isthmian Canal Commission employees. Panama R. R. employees. Pay patients. Charity patients. Insane patients.	2, 254		16	4, 808 140 599 111 51	6, 828 1, 935 991 528 485		
Total	21, 357	4, 864	17	5, 709	10, 767		

## OPERATIONS.

(See report of all surgical operations.)

## LABORATORY REPORT.

(See consolidated ward laboratory report.)

## COLON HOSPITAL.

Class.		Re- main- ing Jan. 1.		Admit- ted.		Died.		is- ged.	Trans- ferred.		11100	
	w.	C.	w.	C.	w.	C.	w.	C.	w.	c.	w.	C.
Isthmian Canal Commission employees Panama R. R. employees Private pay Municipal pay Zone charity.	14 25		533 9	821 479 43	3 13 1	33 54 10	517 8	631 414 28	120 4	184	9 24	35 17 12
Total	142	233	3,890	3,523	49	244	3,285	2,795	581	550	117	167
Average number of days' treatment per employee during the year:  White 13.34 Colored 18.90												
Total											15.	88
Average number of em year:	plo	yee	es co	nstar	itly	sic	ek di	ıring	the	е		
White Colored											117. 139.	
Total				·							256.	86
Number of days' relief Cost of subsistence per	fur pat	nis ien	hed it pe	patie r day	ents						25, 5 \$0. 2	

	N	Amer	icans.	Other nations.			
Class.	Number treated.	White.	Col- ored.	White.	Col- ored.		
Isthmian Canal Commission employees	4, 663 1, 420 1, 047 59 599	1, 278 287 309 1 70	7 1	1, 339 193 223 5 98	2, 039 939 515 53 430		
Total	7,788	1, 945	9	1,858	3, 976		

## OPERATIONS.

(See report of all surgical operations.)

## LABORATORY REPORT.

(See consolidated ward laboratory report.)

## CULEBRA HOSPITAL.

Class.	Remaining Jan. 1.			Admitted.		Died.		Dis- charged.		Trans- ferred.		Remain- ing Dec. 31.	
	W.	C.	w.	C.	W.	C.	W.	C.	W.	C.	W.	С.	
Employees Nonemployees	1 4	1 7	3 100	1 262		2	2 96	1 239	2 6	1 22	2	6	
Total	5	8	103	263		2	98	240.	8	23	2	6	

Average number of days' treatment for employee for the	
year: White	8.00
Colored	16.00
Total	10. 67
year: White	. 09
Colored	. 09
Total  Number of days' relief furnished patients	. 18 3, 647
Cost of subsistence per patient per day	

	Number	Amer	icans.	Other Nations.		
Class.	treated.	White.	Colored	White.	Colored.	
Employees Nonemployees	6 373	2 18	4	2 84	2 267	
Total	379	20	4	86	269	

## OPERATIONS.

(See report of all surgical operations.)

#### LABORATORY REPORT.

(See consolidated ward laboratory report.)

Remain-

## PALO SECO LEPER ASYLUM.

Ad-

Remain-

Dis-

Trans-

Class.	Jan	Jan. 1. mitted.				char	ged.	ferr	ed.	Dec	.31.	
	W.	C.	W.	C.	W.	C.	w.	C.	W.	C.	W.	С.
Employees	1	1 21 11	1	3 6 5		3		4 2 4			1 1	22 12
Total	1	33	1	14		3		10			2	34
Average number of days' treatment per employee for the year:  White								. 75				
year: White Colored											(	). 17 . 73
Total Number of days' relief Cost of subsistence per	fur	nish	ned t per	pati	ient	S						. 90 302 337

		Amer	ricans.	Other nations.		
Class.	Number treated.	White.	Col- ored.	White.	Col- ored.	
Employees	5 28	1		1	4 27	
Charity patients	16				16	
Total	49	1		1	47	

## TABOGA SANITARIUM.

Class.		aining 1. 1.	Admit- ted.						Died. Discharge					
	w.	C.	w.	C.	W.	C.	w.	c.	w.	C.	w.	C.		
Employees Families of em-	57		3, 191				3, 164		33		51			
ployees	5		761				756		2		8			
Totals	62		3,952				3,920		35		59			

Average number of days' treatment per employee for the	_ ~_
year	7. 57
Average number of employees constantly sick during the	ee 99
year Number of days' relief furnished patients	28 068
Cost of subsistence per patient per day	\$0,625

## NATIONALITY.

Class.	Number treated.	Ameri- cans.	Other nations.
Employees	3, 248 766	2, 036 743	1, 212 23
Total	4, 014	2,779	1, 235

Note.—No colored patients treated at Taboga Sanitarium.

# SANTO TOMAS HOSPITAL.

DANTO	1010			O1 11.				
Class.	Re- main- ing Jan. 1.	Ad- mitted	1.	Died.		is- ged.	Trans- ferred.	Re- main- ing Dec. 31.
Pay patientsCharity patients	14 220	1,227 5,01	7	19 390	1 4	,200		22 237
Total	234	6,24	L	409	5	,807		259
Average number of days Average number of patic Number of days' relief for Cost of subsistence per p	ents co urnishe atient	nstant ed pat	ly i ien iy.	sick ts				15. 22 259. 13 94, 581 \$0. 314
				Ame	erical	ıs.	Other	nations
Class.		Numb		White		ol- red.	White.	Col- ored.
Pay patients		1, 24 5, 23	1 84				298 935	94, 29
Total		6, 47	75				1, 233	5, 24
	Оре	RATIO	NS.					
						N	umber.	Died.
Major Minor							614 1, 275	1
Total							1, 889	1
	Dis	PENSA	RY			•		•
Class.			V	White.		Colo	ored.	Total.
Natives				27 13			707 225	98 36
		-						

414

932

1,346

# BOARD OF HEALTH LABORATORY.

Bacteriological examinations:	
Municipal water supplies	99
Water from—	
Streams and springs	27
Condensers	210
Reservoirs, creeks and rivers	8
Filters	13
Cultures from pustules of arm	1
	333
Blood cultures	193
Cultures from autopsies	111
Cultures from eye	6
Stools	382
Urine	359
Sputum	13
Pus.	15
Testicle	ĩ
Hydrocele fluid	$\overline{2}$
Kneejoint fluid	11
Gall-bladder fluid	3
Spinal fluid	7
Various smears and specimens	81
Milk for tubercular bacilli	13
Soil for bacilli coli	12
Pleural fluid	1
Cultures from nose and mouth	14
Quinine tonic (new formula).	1
Blood	ĩ
Treponema palladium	$\frac{1}{2}$
Scrapings from hands.	ĩ
Joint fluid.	î
Ulcers on buttock, etc	$\overset{1}{2}$
	6
Cultures from operating room	1
Determinations:	1
Chlorine content in water	15
Specific gravity of motel	10
Specific gravity of metal.  Specific gravity of sea water	1
Examinations:	1
	47
Leper suspects	2
Post-mortems—	2
Calves	1
~	5
Cows	1
Horses	
Mules	$\frac{2}{2}$
Rats and fleas	4
Dogs	2
Yaws suspect.	14

C

Chemical examinations:	
Blood stains	3
Stomach contents	18
Urine	54
Water, reservoir	8
Various liquids, fluids, etc	90
Water, for determination of dissolved oxygen	23
Various metals	6
Deposit on boiler	1
Agglutination reactions	240
Autopsies	712
Bodies embalmed.	62
Hydrophobia, preventive treatment	4
Medico-legal post-mortems	3
Sections of tissue prepared—	
Frozen	104
Paraffin	7, 345
Surgical pathological tissue and neoplasms re-	1,020
	159
portedVaccine inoculations, antityphoid	79
	32
Vaccine treatment, autogenous	<b>1</b> 2
Water—	69
Microscopical examination of	122
Sanitary analysis of	
Urinemeter calibrated	1
Microscopical examination of lesions on feet	150
Wasserman reactions	158

Note.—Studies in relation to malaria. Preparation of typhoid immune serum. Investigation of cases of illness at Gatun. Sanitary survey of the villages of Chame and Chorrera. Efficiency test of trapo-ratin. Study of an antocthonaus can of oriental sore. Investigation of reported outbreak of smallpox in the towns of Chitre, Los Santos, and Guarare, Republic of Panama. Report on rats and fleas in their relation to bubonic plague.

# ISSUES OF QUININE.

Months.	Kilograms.	Pounds avoirdu- pois.
January February March April May June July August September October November December  Total Average per month	61, 20 23, 25 38, 10 239, 60 29, 50 56, 50 156, 10 74, 70 66, 30 204, 00 49, 00 48, 50	134. 92 51. 26 84. 00 528. 22 65. 03 124. 56 344. 14 164. 68 146. 16 449. 74 108. 03 106. 92

# SANITATION—CITY OF PANAMA.

Anopheles brigade:	
Linear feet of ditches cleaned	1 336 440
Linear feet of ditches due	5 300
Linear feet of ditches dug. Square feet of weeds and grass cut and removed Cesspools cleaned	1 408 390
Casenools classed	271
Cosmools filled	63
Cesspools filled	7, 584
Walls filled	7,001
Wells filled	O
and holes	883
and holes	
rectedLinear feet of gutters repaired or punched	331
Linear feet of gutters repaired or punched	15,031
Linear feet of gutters removed	5, 118
Disinfection brigade:	
Houses disinfected and fumigated for—	
Beriberi	15
Diphtheria	2
Malaria fever	1
Pernicious fever	10
Tuberculosis	50
Chicken pox	8
Mumps	1
Scarlet fever	2
At request of Panama Government	4
Leprosy Houses disinfected for typhoid fever	2
Houses disinfected for typhoid fever	1
Houses fumigated for—	
Yellow fever	5
Measles	2
Measles Number of cubic feet disinfected and fumigated	4, 879, 895
Number of rooms fumigated and disinfected	1,021
Material used:	
Crude oilgallons	6, 180
Larvacidedo	9, 470
Destruction of rats:	70.040
Number of rats caught and killed	12, 846
Average number of rattraps in use daily	445
Poisons placed.	3, 300
Inspection of houses and yards:	7 550
Houses and yards inspected.	1, 552
Persons notified to keep premises in good condition.	674
Warning notices complied with  Number of letters to alcalde requesting enforcement	581
Number of letters to alcalde requesting enforcement	115
of sanitary rules and regulations	115
Number of snacks, stables, and old buildings con-	00
demned and demolished	28
new buildings: Number of plans submitted to health	387
officer and approved	307

# SANITATION—COLON, CRISTOBAL, MOUNT HOPE, TORO POINT.

Medical inspection:	
Number of cases reported by medical inspectors	94
Number of cases inspected	94
Number of cases inspected.  Number of cases sent to hospital	94
Water and sewers:	
Number of connections made during the year	69
Total number of connections made to date	615
Number of outstanding permits.	254
Number of houses in which extensions were made	70
Houses:	
Plans approved	67
Permits to repair issued	308
Permits to occupy issued	58
Temporary permits to occupy issued	15
Number of houses in which defective plumbing	10
fixtures were found and reported to the superin-	
tendent of public works	1,692
Sanitation of Colon:	1,002
Average number of cans of garbage removed daily.	2, 368
Number of—	2, 300
Loads of yard garbage removed	2,706
Acres of vegetation removed	421
Acres of streets cleaned	2,644
Private properties cleaned	4, 823
Square words of pools oiled	180, 150
Square yards of pools oiled	2, 534
Dogs killed	2,004
Dogs killed	388, 260
Linear feet of ditches constructed	7, 060
Linear feet of ditches maintained	206, 124
Nuisances shated	6, 833
Nuisances abated	67, 070
Buildings inspected	157
	25, 219
Alleys cleanedSquare yards of alleys cleaned	133, 325
Acres of streets sprinkled.	276
Crab holes worked.	38, 200
Notice to abote nuiseness conved	
Notice to abate nuisances served	8, 714
Street dump.	
Sanitation of Cristobal (including Beach Island):	
Number of—	49 400
Square yards of pools oiled	42, 490 58, 840
Water receptacles treated	398
Crob bolog worked	
Crab holes worked	1,800
Linear feet of ditches constructed	11, 383
Linear feet of ditches maintained	6, 044
Square yards of vegetation removed	383

Sanitation of Mount Hope:	
Number of—	202 600
Square yards of pools oiled	393, 600
Linear feet of ditches maintained	360, 704 244, 948
Crab holes worked	10, 200
Mosquito-breeding places found	1, 925
Linear feet of ditches constructed	20, 047
Mount Hope cemetery maintained.	, , , , , ,
Sanitation of Toro Point:	
Number of—	
Square yards of pools oiled	320,470
Water receptacles treated	52, 213
Mosquito-breeding places found	1, 110
Linear feet of ditches constructed	39, 663
Linear feet of ditches maintained.	42, 345
Square yards of vegetation removed	1, 325 3, 000
Crab holes worked	28, 505
Cubic yards of ditches constructed	1, 893
cubic fulus of discinct constitutional actions.	1,000
QUARANTINE SERVICE.	
Q0111111111111111111111111111111111111	
PORTS OF PANAMA-ANCON AND COLON-CRISTOBAL	
Number of vessels inspected and passed	1, 186
Number of vessels detained in quarantine.	10
Number of vessels fumigated on arrival (one disinfected)	65 27
Number of vessels fumigated prior to departure  Number of pieces of baggage disinfected	1,417
Number of crew inspected	96, 689
Number of passengers inspected	58, 796
Total number of persons inspected.	155, 485
Number of persons vaccinated at ports of arrival because	, , , , , ,
of compulsory vaccination law	11, 437
Number of persons vaccinated at ports of departure or	
en route because of compulsory vaccination law	16, 094
Total number of persons vaccinated	27,531
Number of persons held in quarantine at the detention	
stations to complete period of incubation of yellow	4 540
fever or plague	4, 540
complete period of incubation of yellow fever or plague	6, 041
Total number of persons held in quarantine	10, 581
Number of persons landed from foreign ports:	10,001
Cabin	
Steerage	
	41,451
Number of persons embarked for foreign ports:	
Cabin	
Steerage	34 840
	34, 849

Apparent increase for the year from foreign ports:	
Cabin	
Steerage	
	6, 602
Number of persons arriving from coast towns on small craft.	31,039
Number of persons embarked for coast towns on small crait.	25, 151
Apparent increase for the year from coast towns	5, 888
Total number of persons landed	72, 490
Total number of persons embarked	60,000
Excess over number embarked	12, 490
Less number for Pacific ports	2, 404
Total apparent increase for the year	10, 086
Number of immigrants recommended for rejection	116
Number of certificates issued to outgoing passengers	725
Number of persons refused certificates because of trachoma	74
Number of bills of health viséed	511
Bocas del Toro.	
Number of vessels inspected and passed	410
Number of crew inspected and passed	15,882
Number of passengers inspected and passed	6,477
Number of passengers, in transit, inspected and passed	2, 103
Number of persons held to complete period of incubation	
of yellow fever	1,874
or your 10 to 11 to 10 t	
PERSONNEL REPORT.	
[Average number of employees at work during the year.]	
	43
Chief sanitary office.	43
Property division	10
Property division	10
Property division	10 39 61
Property division.  Quarantine service.  Health office, Panama.  Health office Colon.	10 39 61 118
Property division.  Quarantine service.  Health office, Panama.  Health office, Colon.  Acon hospital	10 39 61 118 538
Property division.  Quarantine service.  Health office, Panama.  Health office, Colon.  Acon hospital.  Colon hospital	10 39 61 118 538
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital.	10 39 61 118 538 171
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium.	10 39 61 118 538 171 5 24
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium. Palo Seco leper ayslum.	10 39 61 118 538 171 5
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium. Palo Seco leper ayslum. Zone sanitation.	10 39 61 118 538 171 5
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium. Palo Seco leper ayslum. Zone sanitation. Dispensaries:	10 39 61 118 538 171 5 24 14 252
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium. Palo Seco leper ayslum. Zone sanitation. Dispensaries: Ancon.	10 39 61 118 538 171 5 24 14 252
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium. Palo Seco leper ayslum. Zone sanitation. Dispensaries: Ancon. Balboa	10 39 61 118 538 171 5 24 14 252 4 3
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium. Palo Seco leper ayslum. Zone sanitation. Dispensaries: Ancon. Balboa. Bas Obispo.	10 39 61 118 538 171 5 24 14 252 4 3 8
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium Palo Seco leper ayslum. Zone sanitation. Dispensaries: Ancon. Balboa. Bas Obispo. Bohio.	10 39 61 118 538 171 5 24 14 252 4 3 8 4
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium Palo Seco leper ayslum. Zone sanitation. Dispensaries: Ancon. Balboa. Bas Obispo. Bohio. Corozal.	10 39 61 118 538 171 5 24 14 252 4 3 8 4 3
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium Palo Seco leper ayslum. Zone sanitation. Dispensaries: Ancon. Balboa. Bas Obispo. Bohio. Corozal. Cristobal.	10 39 61 118 538 171 5 24 14 252 4 3 8 4 3 8
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium Palo Seco leper ayslum. Zone sanitation. Dispensaries: Ancon. Balboa. Bas Obispo. Bohio. Corozal. Cristobal. Culebra.	10 39 61 118 538 171 5 24 14 252 4 3 8 4 3 8 13
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium. Palo Seco leper ayslum. Zone sanitation. Dispensaries: Ancon. Balboa. Bas Obispo. Bohio. Corozal. Cristobal. Culebra. Empire.	10 39 61 118 538 171 5 24 14 252 4 3 8 4 3 13 10
Property division. Quarantine service. Health office, Panama. Health office, Colon. Acon hospital. Colon hospital. Santo Tomas hospital. Taboga sanitarium Palo Seco leper ayslum. Zone sanitation. Dispensaries: Ancon. Balboa. Bas Obispo. Bohio. Corozal. Cristobal. Culebra.	10 39 61 118 538 171 5 24 14 252 4 3 8 4 3 13 10 18

Dispensaries—Continued.	
Las Cascadas	8
Miraflores	5
Nombre de Dios	
Paraiso	5
Pedro Miguel	5
Porto Bello	5
San Pablo	
Tabernilla	
Toro Point.	3
Total	1,397

# HOSPITAL CASES OF MALARIA AMONG EMPLOYEES.

Months.	Discharged.		Died.		Total.	Annual	Annual average	Number
	W.	C.	w.	С	Cases.	per 1,000 of deaths.	per 1,000 of cases.	of employees.
January	229	247		4	480	0.96	115	49,961
February	199	159			358	.00	85	50,725
March	263	267		2	532	. 47	125	51, 199
April	248	189	1		438	.22	97	54, 293
May	268	344		1	613	. 23	139	52,863
June	629	624	1	7	1,261	1.85	290	51,767
July	828	919	5	5	1,757	2.31	406	51,871
August	746	675	2	1	1,424	.71	337	50,638
September	476°	404	1	2	883	.71	211	50,207
October	364	253	2		619	.49	150	49,460
November	316	241	1	3	561	.99	139	48, 260
December	305	253		3	561	.74	139	48, 386
Total	4,871	4,575	13	28	9,487	. 81	187	50, 802











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